# JOURNAL OF MOLECULAR LIQUIDS

*Contents of Volume 38*

A $^{13}C$ NMR study of hindered rotation in $N^1N^1$ - 3-oxapentamethylene-$N^2$ - substitutedphenylformamidines
I. Wawer (Warsaw, Poland) ..... 1
Dielectric relaxation studies of some aliphatic alcohols and their mixtures in benzene solutions
A.D. Vyas and V.M. Vashisth (Ahmedabad, India) ..... 11
Dielectric relaxation of mixtures of non-rigid polar molecules in benzene
J.M. Gandhi and G.L. Sharma (Jaipur, India) ..... 23
Theoretical study of the aqueous medium effect on the reaction $CO_2 + OH^- \rightleftharpoons HCO_3^-$
V. Levchuk, I. Sheykhet and B. Simkin (Rostov-on-Don, U.S.S.R.) ..... 35
Dielectric relaxation in benzotrihalides at microwave frequencies
H.D. Purohit, H.C. Lunker and R.J. Sengwa (Jodhpur, India) ..... 55
Dielectric dispersion studies of aromatic ketones in non-polar solvents
R.K. Khanna and A. Bhatnagar (Ajmer, India) ..... 63
Relaxation phenomena in water — N-methylmorpholin N-oxide binary mixtures
G. Berchiesi (Camerino, Italy) ..... 73
Enantioselective effects in the association between pure enantiomers of sulphoxides and alcohols
H.T. Diep and A. Kolbe (Halle, D.D.R.), J. Drabowicz and M. Mikołajczyk (Boczna, Poland) ..... 89
Thermal neutron diffraction study of liquid phosphor tribromide under isobaric condition at 295 K
J.B. van Tricht, H.W. van Zeyl and P. van der Ende (Delft, The Netherlands) ..... 97
Molecular association of pentanols in n-heptane II: viscosities as a function of temperature covering low concentration range
M. Rappon and J.A. Kaukinen (Thunder Bay, Ont., Canada) ..... 107
Dielectric relaxation of benzophenone and some of its derivatives in the liquid state. Part II: Benzophenone, 2,4-dihydroxybenzophenone and p-rosolic acid in DMSO or acetone solution
L. Wodniok and M. Stockhausen (Münster, F.R.G.) ..... 135
Investigation of imidazole self-association in non-polar solvents
K. Prałat and G. Czechowski (Poznań, Poland) ..... 147
Comments on: 'The dielectric and dynamic mechanical behaviour of molecularly disordered phases'
S.S.N. Murthy (Guntur, India) ..... 157
Dielectric relaxation of benzophenone and some of its derivatives in the liquid state. Part. I. Dimethyl- and chlorobenzophenones as pure liquid and as highly concentrated solutions in nonpolar solvents
E. Dachwitz and M. Stockhausen (Münster, F.R.G.) ..... 163
Modified Langevin functions for new birefringence effects in molecular liquids
M.W. Evans (Lancaster, U.K.) ..... 175
NMR imaging and relaxation study of polymer swelling and chain dynamics
T.H. Mareci, S. Dønstrup (Gainesville, FL, U.S.A.) and A. Rigamonti (Pavia, Italy) ..... 185
Texture and calorimetric investigations of some new copper(II) coordination compounds with mesomorphic properties
M. Ghedini, S. Armentano and R. Bartolino (Cosenza, Italy), N. Kirov, M. Petrov and S. Nenova (Sofia, Bulgaria) ..... 207
NMR investigations of binary mixtures formed by 1,4-dioxan and alkyl alcohols
P. Mirti (Turin, Italy) ..... 215

Dielectric properties of binary systems. 8. Improved model for alcohol/non polar systems
M.B. Rebollo Paz, A.H. Buep and M. Baron (Buenos Aires, Argentina) ..... 225
Étude du comportement diélectrique de quelques liquides polaires organiques en fonction de la temperature
G. Vicq, A.M. Bottreau et J.M. Fornies-Marquina (Talence, France) ..... 233

*Book Review* ..... 267

*Contents of Volume 38* ..... *269*

*Instructions to Authors* ..... *271*